

Serial Number:

U3/09/560494

CRF Processing Date: 10/10/01

Edited by: MIT

Verified by:

(STI)

TECHCENTER 160/2900

NOV 13 2001

RECEIVED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of ☐ page numbers throughout text; ☒ other invalid text, such as end stop codon
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- ☐ Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

DATE: 10/10/2001

PATENT APPLICATION: US/09/560,494

TIME: 09:35:44

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10102001\I560494.raw

SEQUENCE LISTING

ENTERED

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Jakobsen, Brent Karsten

7 Gao, George Fu

8 Gerth, Ulrich Conrad

9 Sewell, Andrew Kelvin

11 (ii) TITLE OF INVENTION: CD8 AS AN INHIBITOR OF THE CELLULAR

12 IMMUNE SYSTEM

14 (iii) NUMBER OF SEQUENCES: 26

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: Hale and Dorr LLP

18 (B) STREET: 60 State Street

19 (C) CITY: Boston

20 (D) STATE: Massachusetts

21 (E) COUNTRY: United States

22 (F) ZIP: 02109

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk

26 (B) COMPUTER: IBM PC compatible

27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/09/560,494

C--> 32 (B) FILING DATE: 28-Apr-2000

33 (C) CLASSIFICATION:

39 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: WO PCT/GB98/03235

37 (B) FILING DATE: 28-OCT-1998

40 (A) APPLICATION NUMBER: GB 9722779.7

41 (B) FILING DATE: 28-OCT-1997

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: Baker, Hollie L.

45 (B) REGISTRATION NUMBER: 31,321

46 (C) REFERENCE/DOCKET NUMBER: 102286.413

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: (617) 526-6000

50 (B) TELEFAX: (617) 526-5000

53 (2) INFORMATION FOR SEQ ID NO: 1:

55 (i) SEQUENCE CHARACTERISTICS:

56 (A) LENGTH: 48 base pairs

57 (B) TYPE: nucleic acid

58 (C) STRANDEDNESS: single

59 (D) TOPOLOGY: linear

61 (ii) MOLECULE TYPE: other nucleic acid

62 (A) DESCRIPTION: /desc = "Synthetic DNA primer"

67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

69 GACTGAGTCG CGGCCGCTGC CACCATGGCC TTACCAGTGA CCGCCTTG

48

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71 (2) INFORMATION FOR SEQ ID NO: 2:
73   (i) SEQUENCE CHARACTERISTICS:
74       (A) LENGTH: 42 base pairs
75       (B) TYPE: nucleic acid
76       (C) STRANDEDNESS: single
77       (D) TOPOLOGY: linear
79   (ii) MOLECULE TYPE: other nucleic acid
80       (A) DESCRIPTION: /desc = "Synthetic DNA primer"
85   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
87 TATTCGACTG GATCCTTATA CGTATCTCGC CGAAAGGCTG GG           42
89 (2) INFORMATION FOR SEQ ID NO: 3:
91   (i) SEQUENCE CHARACTERISTICS:
92       (A) LENGTH: 42 base pairs
93       (B) TYPE: nucleic acid
94       (C) STRANDEDNESS: single
95       (D) TOPOLOGY: linear
97   (ii) MOLECULE TYPE: other nucleic acid
98       (A) DESCRIPTION: /desc = "Synthetic DNA primer"
103  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
105 GGAATTCCAT ATGAGCCAGT TCCGGGTGTC GCCGCTGGAT CG           42
107 (2) INFORMATION FOR SEQ ID NO: 4:
109   (i) SEQUENCE CHARACTERISTICS:
110       (A) LENGTH: 54 base pairs
111       (B) TYPE: nucleic acid
112       (C) STRANDEDNESS: single
113       (D) TOPOLOGY: linear
115   (ii) MOLECULE TYPE: other nucleic acid
116       (A) DESCRIPTION: /desc = "Synthetic DNA primer"
121  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
123 CGCGGATCCC TATGCGCCCC CCGCTGGCCG GCTCGCCTCT GGGCGCAGGG ACAG       54
125 (2) INFORMATION FOR SEQ ID NO: 5:
127   (i) SEQUENCE CHARACTERISTICS:
128       (A) LENGTH: 60 base pairs
129       (B) TYPE: nucleic acid
130       (C) STRANDEDNESS: single
131       (D) TOPOLOGY: linear
133   (ii) MOLECULE TYPE: other nucleic acid
134       (A) DESCRIPTION: /desc = "Synthetic DNA primer"
139  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
141 CACCGCGAAT TCGGATCCTA AGCGGGTCTA CAAGCTTCGG GCTTCGCTGG CAGGAAGACC       60
144 (2) INFORMATION FOR SEQ ID NO: 6:
146   (i) SEQUENCE CHARACTERISTICS:
147       (A) LENGTH: 59 base pairs
148       (B) TYPE: nucleic acid
149       (C) STRANDEDNESS: single
150       (D) TOPOLOGY: linear
152   (ii) MOLECULE TYPE: other nucleic acid
153       (A) DESCRIPTION: /desc = "Synthetic DNA primer"
158  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

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160 CACCGCGAAT TCGGATCCTA AGCGGGTCTA CAAGCTTCTG GCGTCGTGGT GGGCTTCGC      59
162 (2) INFORMATION FOR SEQ ID NO: 7:
164     (i) SEQUENCE CHARACTERISTICS:
165         (A) LENGTH: 60 base pairs
166         (B) TYPE: nucleic acid
167         (C) STRANDEDNESS: single
168         (D) TOPOLOGY: linear
170     (ii) MOLECULE TYPE: other nucleic acid
171         (A) DESCRIPTION: /desc = "Synthetic DNA primer"
176     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
178 CACCGCGAAT TCGGATCCTA AGCGGGTCTA CAAGCTTCGG GCTTCGCTGG CAGGAAGACC      60
181 (2) INFORMATION FOR SEQ ID NO: 8:
183     (i) SEQUENCE CHARACTERISTICS:
184         (A) LENGTH: 42 base pairs
185         (B) TYPE: nucleic acid
186         (C) STRANDEDNESS: single
187         (D) TOPOLOGY: linear
189     (ii) MOLECULE TYPE: other nucleic acid
190         (A) DESCRIPTION: /desc = "Synthetic DNA primer"
195     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
197 GTGGCAAGCT TGGATCCTAT GCGTCGTGG TGGGCTTCGC TG                        42
199 (2) INFORMATION FOR SEQ ID NO: 9:
201     (i) SEQUENCE CHARACTERISTICS:
202         (A) LENGTH: 42 base pairs
203         (B) TYPE: nucleic acid
204         (C) STRANDEDNESS: single
205         (D) TOPOLOGY: linear
207     (ii) MOLECULE TYPE: other nucleic acid
208         (A) DESCRIPTION: /desc = "Synthetic DNA primer"
213     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
215 GGAATTCCAT ATGAGTCAAT TTCGTGTATC ACCGCTGGAT CG                        42
217 (2) INFORMATION FOR SEQ ID NO: 10:
219     (i) SEQUENCE CHARACTERISTICS:
220         (A) LENGTH: 35 base pairs
221         (B) TYPE: nucleic acid
222         (C) STRANDEDNESS: single
223         (D) TOPOLOGY: linear
225     (ii) MOLECULE TYPE: other nucleic acid
226         (A) DESCRIPTION: /desc = "Synthetic DNA primer"
231     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
233 ACATACCCAT GGGCTCTCAC TCCATGAGGT ATTTC                                35
235 (2) INFORMATION FOR SEQ ID NO: 11:
237     (i) SEQUENCE CHARACTERISTICS:
238         (A) LENGTH: 43 base pairs
239         (B) TYPE: nucleic acid
240         (C) STRANDEDNESS: single
241         (D) TOPOLOGY: linear
243     (ii) MOLECULE TYPE: other nucleic acid
244         (A) DESCRIPTION: /desc = "Synthetic DNA primer"

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249      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
251 ACATACAAGC TTACGGCTCC CATCTTAAGG TGAGGGGCTT GGG
253 (2) INFORMATION FOR SEQ ID NO: 12:
255      (i) SEQUENCE CHARACTERISTICS:
256          (A) LENGTH: 9 amino acids
257          (B) TYPE: amino acid
258          (C) STRANDEDNESS:
259          (D) TOPOLOGY: linear
261      (ii) MOLECULE TYPE: peptide
266      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
268      Ile Leu Lys Glu Pro Val His Gly Val
269      1          5
271 (2) INFORMATION FOR SEQ ID NO: 13:
273      (i) SEQUENCE CHARACTERISTICS:
274          (A) LENGTH: 9 amino acids
275          (B) TYPE: amino acid
276          (C) STRANDEDNESS:
277          (D) TOPOLOGY: linear
279      (ii) MOLECULE TYPE: peptide
284      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
286      Ser Leu Tyr Asn Thr Val Ala Thr Leu
287      1          5
289 (2) INFORMATION FOR SEQ ID NO: 14:
291      (i) SEQUENCE CHARACTERISTICS:
292          (A) LENGTH: 9 amino acids
293          (B) TYPE: amino acid
294          (C) STRANDEDNESS:
295          (D) TOPOLOGY: linear
297      (ii) MOLECULE TYPE: peptide
302      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
304      Val Ile Tyr Gln Tyr Met Asp Asp Leu
305      1          5
307 (2) INFORMATION FOR SEQ ID NO: 15:
309      (i) SEQUENCE CHARACTERISTICS:
310          (A) LENGTH: 42 base pairs
311          (B) TYPE: nucleic acid
312          (C) STRANDEDNESS: single
313          (D) TOPOLOGY: linear
315      (ii) MOLECULE TYPE: other nucleic acid
316          (A) DESCRIPTION: /desc = "Synthetic DNA primer"
321      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
323 CTGTCCAACC CGACGTCGGG CAGCTCGTGG CTCTTCCAGC CG
325 (2) INFORMATION FOR SEQ ID NO: 16:
327      (i) SEQUENCE CHARACTERISTICS:
328          (A) LENGTH: 42 base pairs
329          (B) TYPE: nucleic acid
330          (C) STRANDEDNESS: single
331          (D) TOPOLOGY: linear
333      (ii) MOLECULE TYPE: other nucleic acid

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Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10102001\I560494.raw

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334      (A) DESCRIPTION: /desc = "Synthetic DNA prmer"
339      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
341 CGGCTGGAAG AGCCACGAGC TGCCCGACGT CGGGTTGGAC AG      42
343 (2) INFORMATION FOR SEQ ID NO: 17:
345      (i) SEQUENCE CHARACTERISTICS:
346          (A) LENGTH: 99 base pairs
347          (B) TYPE: nucleic acid
348          (C) STRANDEDNESS: single
349          (D) TOPOLOGY: linear
351      (ii) MOLECULE TYPE: other nucleic acid
352          (A) DESCRIPTION: /desc = "Synthetic DNA primer"
357      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
359 GGGGGAAGCT TAATGCCATT CGATTTTCTG AGCTTCAAAA ATATCGTTCA GACCACCACC      60
361 GGATCCTGGC GTCGTGGTGG GCTTCGCTGG CAGGAAGAC      99
363 (2) INFORMATION FOR SEQ ID NO: 18:
365      (i) SEQUENCE CHARACTERISTICS:
366          (A) LENGTH: 18 amino acids
367          (B) TYPE: amino acid
368          (C) STRANDEDNESS:
369          (D) TOPOLOGY: linear
371      (ii) MOLECULE TYPE: peptide
376      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
378 Gly Ser Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
379 1          5          10          15
381 Trp His
384 (2) INFORMATION FOR SEQ ID NO: 19:
386      (i) SEQUENCE CHARACTERISTICS:
387          (A) LENGTH: 63 base pairs
388          (B) TYPE: nucleic acid
389          (C) STRANDEDNESS: single
390          (D) TOPOLOGY: linear
392      (ii) MOLECULE TYPE: other nucleic acid
393          (A) DESCRIPTION: /desc = "Synthetic DNA prmer"
398      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
400 GAGGAGGAGC ATATGAAACC ACAAGCACCT GAACTACGAA TCTTTCCAAA GAAAATGGAC      60
402 GCC      63
404 (2) INFORMATION FOR SEQ ID NO: 20:
406      (i) SEQUENCE CHARACTERISTICS:
407          (A) LENGTH: 36 base pairs
408          (B) TYPE: nucleic acid
409          (C) STRANDEDNESS: single
410          (D) TOPOLOGY: linear
412      (ii) MOLECULE TYPE: other nucleic acid
413          (A) DESCRIPTION: /desc = "Synthetic DNA primer"
418      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
420 GGGGAGGGAA GCTTACTTGG TAGTAGTAGA GTTCAC      36
422 (2) INFORMATION FOR SEQ ID NO: 21:
424      (i) SEQUENCE CHARACTERISTICS:
425          (A) LENGTH: 9 amino acids

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VERIFICATION SUMMARY

DATE: 10/10/2001

PATENT APPLICATION: US/09/560,494

TIME: 09:35:46

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10102001\I560494.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:567 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:571 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:575 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:579 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:583 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:587 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:591 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:595 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25
L:599 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25